GRID-SCALE ENERGY STORAGE DEMONSTRATION FOR ANCILLARY SERVICES USING THE ULTRABATTERYTM TECHNOLOGY

Jeff Seasholtz
East Penn Manufacturing

John Wood Ecoult



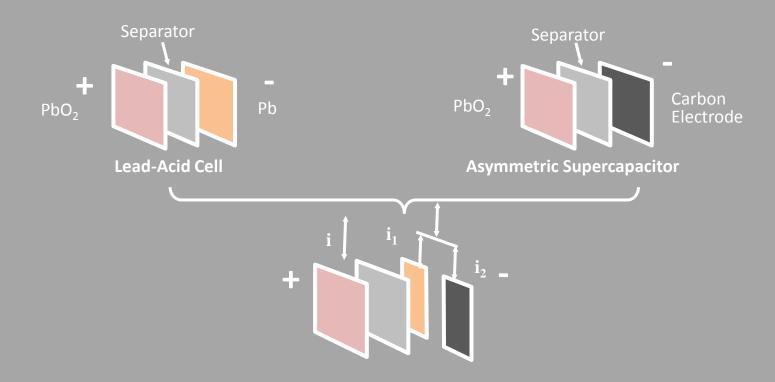












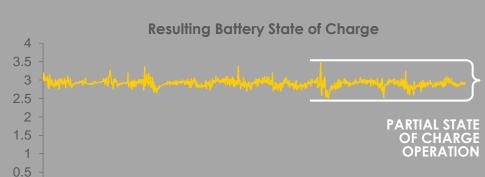


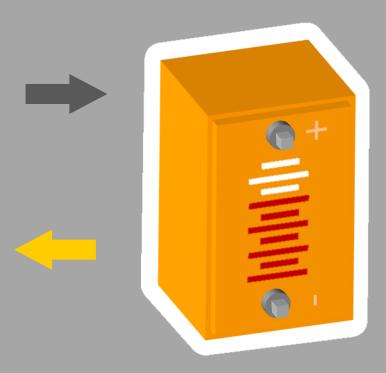


REGULATION USE IN PARTIAL STATE OF CHARGE







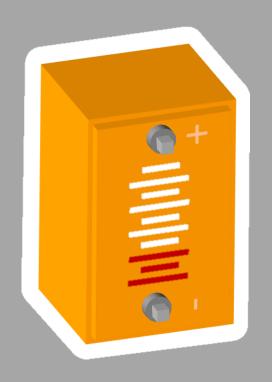


LONG LIFE

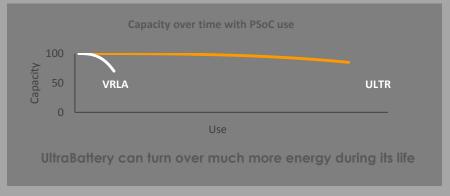
EAST PENN manufacturing co., inc.



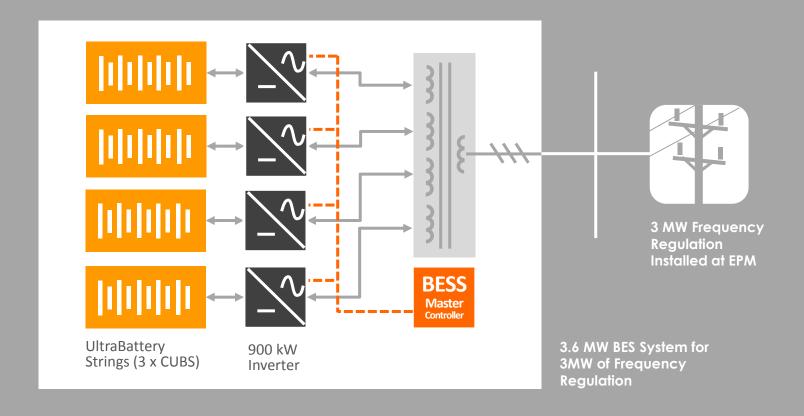
& HIGH EFFICIENCY IN PARTIAL STATE OF CHARGE









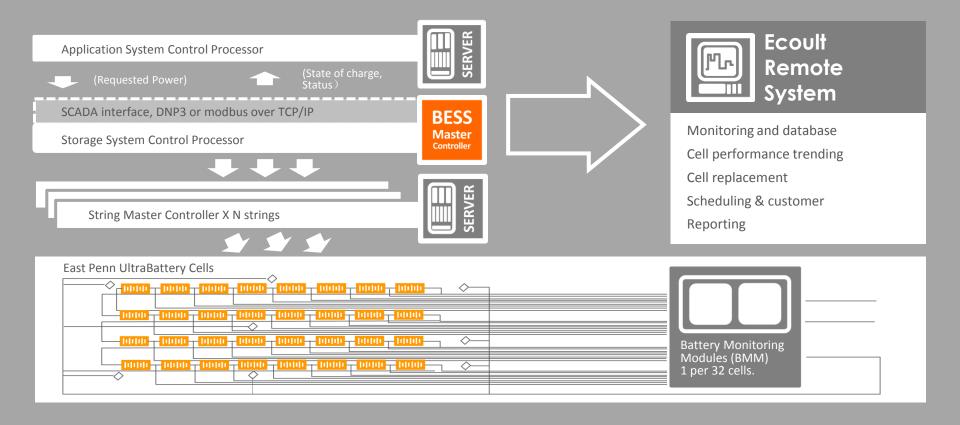


LOGIC STRUCTURE

EAST PENN manufacturing co., inc.



OF ENERGY STORAGE SYSTEM



ACCELERATED

CHARACTERIZATION







PROJECT STATUS



- UltraBattery
- Management System
- Power Control System
- **Buildings & Containers**
- System Integration
- Interconnect
- Commissioning and Operation

UltraBattery™

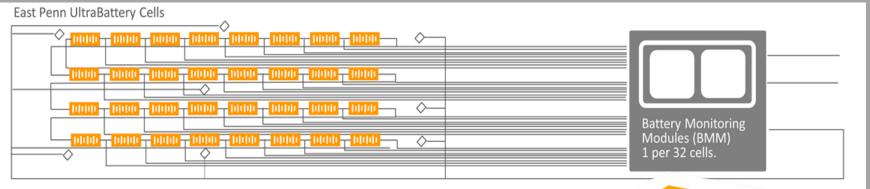
EAST PENN manufacturing co., inc.

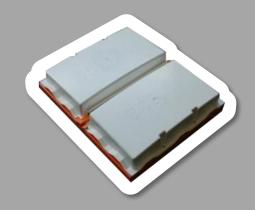


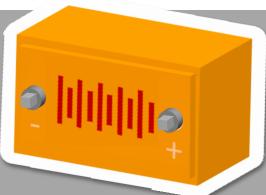


Status: 100% complete









Status: 100% complete

POWER

EAST PENN manufacturing co., inc.



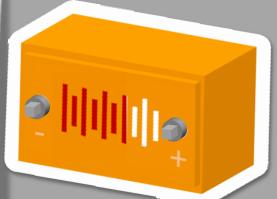
CONTROL SYSTEM



Main Enclosure



Control Panel



Status: 75% complete

Power Modules

BUILDING

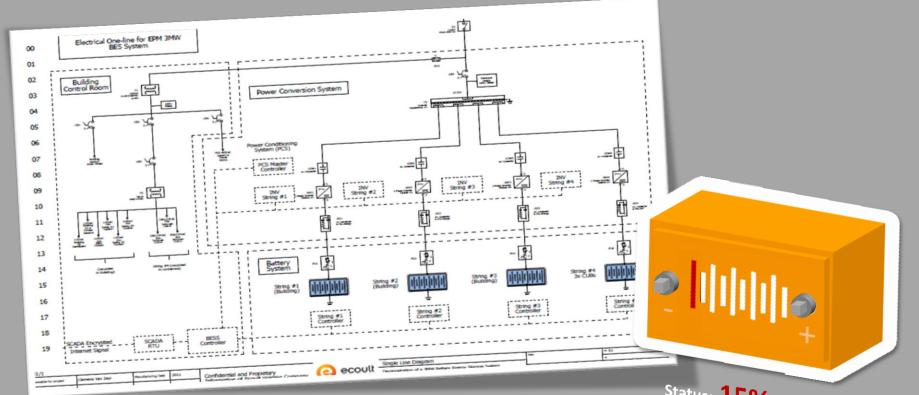




SYSTEM

INTEGRATION













UltraBa

Manage

Power C

Building

System

Interconi

START OF OPERATIONS:

EARLY 2nd QTR 2012

5 Days)



THANK YOU

EAST PENN manufacturing co., inc.



Jeff Seasholtz

Project Leader jseasholtz@eastpenn-deka.com

John Wood

CEO Ecoult john.wood@ecoult.com